

wherein:

n is 1-3;

R is selected from the group consisting of methyl and ethyl;

R_f is selected from the group consisting of perfluorinated alkyls having 1-20 carbons, or an oxaperfluorinated polyether having from about 4-20 carbons;

R¹ is a divalent hydrocarbyl radical;

X is 1-20;

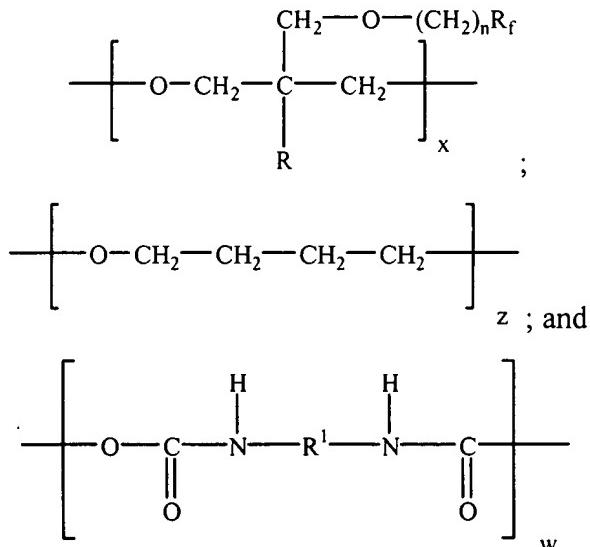
Y is 10-150; and

Z is 2-50.--

IN THE CLAIMS:

Please amend claims 20, 23, 24, 25, 26, 27 and 28 in the following manner:

- 1 20. (Amended) A fluorinated polyurethane elastomer having FOX/THF segments
2 and comprising a mixture of monomeric repeat units having the general formulae:



5 6 wherein:

7 each n is independently selected and is a number from 1 to 3;

8 each R is independently selected from the group consisting of methyl and ethyl;

9 each R_f is independently selected from the group consisting of linear and branched
10 perfluorinated alkyls and isoalkyls having from 1 to about 20 carbons, and
11 oxa-perfluorinated polyethers having from about 4 to about 60 carbons;
12 x is about 10 to about 250;
13 z is 1 to about 250;
14 R₁ is a divalent hydrocarbyl radical; and
15 w is 1 to about 50.

1 23. (Amended) The fluorinated polyurethane elastomer in accordance with claim 20,
2 wherein the isocyanate segment is produced from a member selected from the group consisting of
3 hexamethylene diisocyanate (HDI), isophorone diisocyanate (IPDI), 4,4'-methylene diphenyl-
4 isocyanate (MDI), polymeric MDI, toluene diisocyanates, hydrogenated MDI (HMDI), polymeric
5 HDI, trimethylhexane diisocyanate and mixtures of at least two thereof.

31 24. (Amended) The fluorinated polyurethane elastomer in accordance with claim 20,
2 further comprising a cross-link formed from a cross-linking agent or a chain-extender selected from
3 the group consisting of low molecular weight polyols and polyamines.

1 25. (Amended) The fluorinated polyurethane elastomer in accordance with claim 24,
2 wherein said cross-linking agent is selected from the group consisting of trimethylolpropane,
3 pentaerythritol, trimethylolethane, triethanolamine, 1,4-butanediamine, xylene diamine,
4 diethylenetriamine, methylene dianiline and diethanolamine.

1 26. (Amended) The fluorinated polyurethane elastomer in accordance with claim 24,
2 wherein said chain extender is a member selected from the group consisting of 1,4-butanediol; 1,3-
3 propanediol; and benzenedimethanol.

1 27. (Amended) The fluorinated polyurethane elastomer in accordance with claim 24,
2 wherein said chain extender is 1,4-butanediol.

1 28. (Amended) The fluorinated polyurethane elastomer in accordance with claim 20,
2 wherein the fluorinated polyether segment is produced from at least one mono-substituted FOX
3 monomer selected from the group consisting of 3-(2,2,2-trifluoroethoxymethyl)-3-methyloxetane; 3-